A PRESENTATION ON

#### IDENTIFYING NON-COMPLIANT QUERIES USING D.A.M. TOOLS

By Team Spark

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## INTRODUCTION

- × Databases are everywhere
- **×** Their Security is a Prime Concern
- Current Enterprise databases like Oracle 11g and IBM DB2 have inbuilt security features.
- But a protective layer around and outside the database is always important.
- **×** DAM Tools provide this type of security.

## INTRODUCTION

**Guardi**um<sup>®</sup>

SAFEGUARDING DATABASES<sup>\*\*</sup> AN IBM<sup>\*</sup> COMPANY

- What inbuilt Security features do Enterprise databases have?
- × So, why the outer layer of security?
- What are the Database Activity Monitoring tools in the Market?

GREENSO

**MPERVA** 



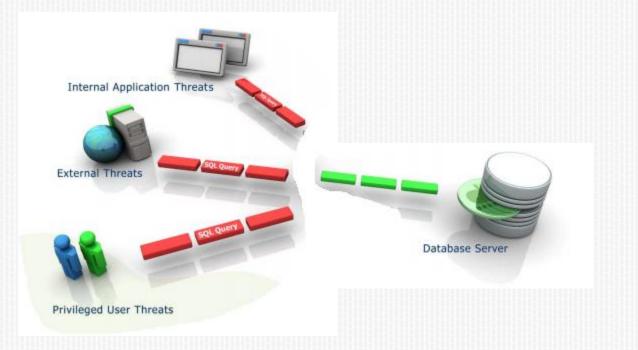


#### GREENSQL

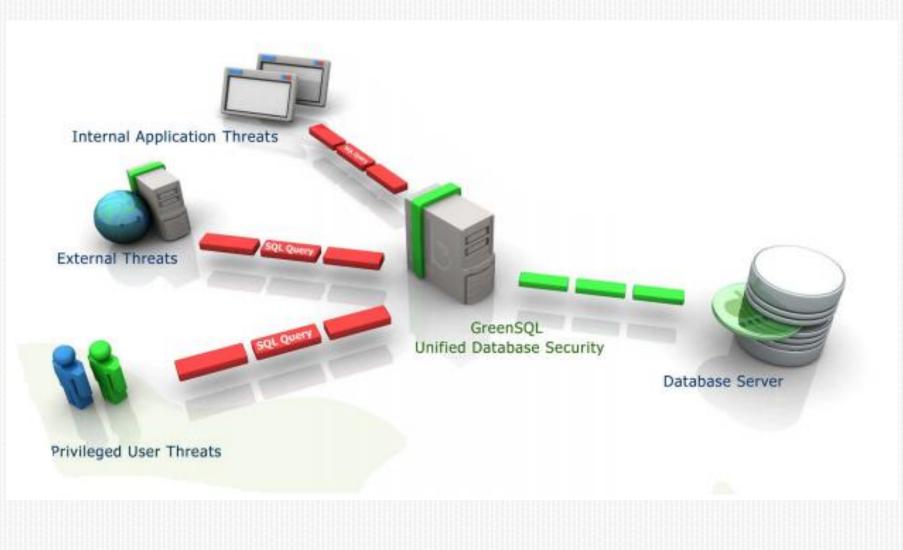
## WHY GREENSQL?

- x Its an open source tool( Express edition)
- × Very easy to install & configure.
- It was designed for MySQL. (Also supports MS SQL Server and PostgreSQL)
- × Simple & Clean GUI for control
- × Super light-weight on the database
- Has advanced features to perform masking, auditing and caching

#### THE REGULAR DATABASE INFRASTRUCTURE



### THE GREENSQL DATABASE INFRASTRUCTURE



## THE WHOLE IDEA

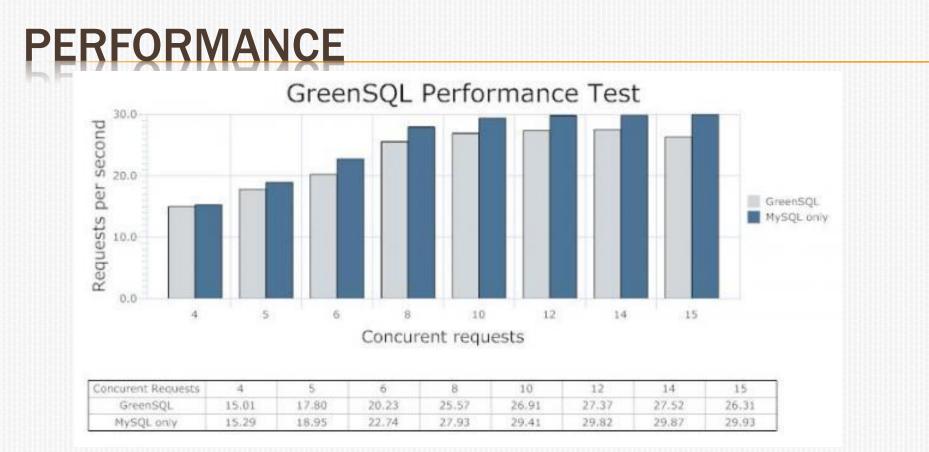
- Users connect to databases using various applications.
- Instead of allowing users to directly connect to the DB, make them connect to a REVERSE PROXY DB.
- A Reverse Proxy DB essentially looks like a database to a user but is not what it appears to be.

## THE PROJECT

- × Using MySQL as the database.
- An arbitrary number of users exist classified as developers, testers and Support.
- Each of them must have different privileges on the database and the tables and schemas in them.
- This is enforced externally and securely without affecting the database.

## WHAT MORE CAN GREENSQL DO?

- × Preventing SQL injection attacks.
- × Provide real time alerts.
- As it is rule based, it can develop intelligence on its own using the Learning and IPS modes.
- Facilitate in compliance of SOX and PCIDSS standards.
- Reduce intranet bandwidth consumption.(How?? By Caching)
- Masking data in real time and thus providing data integrity and Separation of Duties.



A Difference of 2% to 7% depending on the number of requests.

# THANK YOU!!